

C. japonica var. **gracilis** TAGAWA ほそばのいはがねさう

いはがねさうニ比シ羽片ハ遙ニ細ク元幅 1 乃至 1.5 糎、從ツテ側脈ハ著シク斜上シテキル。脈序ハいはがねさうト同ジク網目隙ハ澤山ニアル。鋸齒ハズツト低平デアル。最下ノ羽片ハ分岐シテキナイカ又ハ 2 岐 3 岐シテキル。明瞭ナ獨立種ノヤウニモ思ハレルガ、いはがねさう羽片ノ細イモノハヨホドコレニ近ヅクノデ變種ニシタ。奄美大島ノ特産。

Anogramma LINK はにからくさ屬

A. leptophylla LINK はにからくさ

全世界ノ熱帶溫帶ニ廣ク分布シテキルガ、我邦デモ近年鈴木時夫氏ガ臺灣デ發見セラレタ。コノ屬ノ植物ハ今日ノ所我邦デハコノはにからくさ一種シカナイ。

Gymnopteris BERNH. びろうどきじのを屬

G. vestita UND. びろうどきじのを

コレモ近年鈴木時夫氏ガ臺灣中部ノ高山デ發見セラレタ珍種。海外デハヒマラヤ地方ヤ支那ニアル。

Hemionitis L. いぬあみしだ屬

H. arifolia MOORE いぬあみしだ

亞細亞ノ熱帶ニハ廣ク分布シテキル種類デアルガ、臺灣デハ稀ナノカ筆者ハ高雄州鳳山郡産ノ標本ヲ一枚ミタキリデアル。

Miscellaneous Notes on the East Asiatic Uredinales with Special Reference to the Japanese Species (V)

By

Naohide HIRATSUKA

平塚直秀：東亞銹菌類雜考（其五）

94) **Puccinia Makiana** HIRATSUKA, f. nov. spec.

Soris teleutosporiferis amphigenis, plerumque epiphyllis, sparsis vel aggregatis, saepe confluentibus, minutis, rotundatis, 0.1~0.6 mm diam., compactis, tectis, duris, atro-brunneis vel atris; paraphysibus numerosis coalitis, brunneolis; teleutosporis clavatis vel lineari-clavatis, apice truncatis, rotundatis vel acutiusculis, incrassatis (4~6 μ), medio non vel parum constrictis,

basi in pedicellum attenuatis, levibus, flavo-brunneis, apice obscurioribus, $45\sim63\times12\sim18\mu$; pedicello brevi; persistenti, brunneolo.

Hab. On *Scrophularia nodosa* L. (*O-hinanousutsubo*). *Kiushû* :- Pro. Chikuzen :- Raizan (Sept. 26, 1936, Y. MAKI, type!).

95) **Puccinia Hemerocallidis** THÜMEN in Bull. Soc. Imp. Nat. Moseou, LV, p. 81, 1880.

Syn. *Aecidium Patriniae* HENNINGS in Hedwigia, XLI, p. (21), 1902.

Hab. On *Patrinia scabiosaeifolia* LINK (*Ominaeshi*). *Honshû* :- Prov. Inaba: Inabayama near Tottori (June 17, 1938, HIRATSUKA, f. & M. IRIE); Ajiromura (May 9, 1937, I. KIYOHARA). *Shikoku* :- Prov. Tosa: Kuroiwa-mura (May, 1901, T. TOSHINAGA, type of *Aecidium Patriniae* P. HENN.!).

In 1913, W. TRANZSCHER¹⁾ first proved by inoculations, that the aecidial stage of *Puccinia Hemerocallidis* THÜM. is *Aecidium Patriniae* P. HENN. He inoculated with sporidia from the teleutospores on *Hemerocallis minor* MILL. (*H. graminea* TURCZ.) which were collected by Mr. MICHNO in Transbaicalia, on *Patrinia rupestris* JUSS., *P. scabiosaeifolia* LINK and *Valeriana officinalis* L., and obtained successful results on the former two species of *Patrinia*. But, the aecidial connection of this species has never been proved with Japanese material up to the present.

In June 1938, the writer attempted to make inoculations with aecidiospores from *Patrinia scabiosaeifolia* on *Hemerocallis disticha* DONN (*Nokwanzô*). The aecidiospores from the aecidia on leaves of *Patrinia scabiosaeifolia* which had been collected by the writer at Inabayama near Tottori City on June 17, 1938 were used as an inoculum. On the next day, the aecidiospores were sown on leaves of *Hemerocallis disticha* which was potted in the laboratory. Fifteen days after inoculation, numerous uredosori began to appear on the inoculated surface of leaves, and after four weeks, teleutospores developed on the same portion of the leaves.

96) **Puccinia toyohirensis** HIRATSUKA, f. nov. spec.

Soris teleutosporiferis amphigenis, plerumque hypophyllis, sparsis vel aggregatis, oblongis vel linearibus, saepe confluentibus, crassis, compactis,

¹⁾ Mycologisches Centralblatt, IV, p. 70, 1914.

atro-brunneis vel atris; teleutosporis oblongis vel oblongo-clavatis, apice rotundatis vel sæpius conico-attenuatis, incrassatis (usque 12μ), medio vix vel parum constrictis, basi attenuatis, levibus, brunneis, $45\sim 65 \times 18\sim 23\mu$; pedicello persistenti, flavido, usque 110μ longo.

Hab. On *Cyperus orthostachyus* FRANCH. et SAV. (*Cyperus truncatus* TURCZ. var. *robustus* NAKAI) (*Ushi-kugu*). *Hokkaidô* :- Prov. Ishikari : River-side of the Toyohira, Sapporo (Nov. 3, 1925, HIRATSUKA, f. type!).

97) **Puccinia Polygoni-amphibii** PERSOON, Syn. Fung. p. 227, 1801.

Hab. On *Persicaria Thunbergii* NAKAI var. *typica* OHKI (*Mizo-soba*). *S. Saghalien* :- Ôdomari; Nagahama-mura (Oct. 9, 1938, Naoharu HIRATSUKA). New to Saghalien!

98) **Puccinia Dianthi-japonici** HENNINGS in ENGL. Bot. Jahrb. XXXIV, p. 595, 1905.

Hab. On *Dianthus japonicus* THUNB. (*Fuji-nadeshiko*). *Honshû* :- Prov. Kii : Seto-Kanayama-mura (Dec. 23, 1938, HIRATSUKA, f.); Wakayama-shi (Nov. 27, 1938, E. TOBINAGA); Kimiidera (May 16, 1937, E. TOBINAGA); Wabuka-mura (Nishimuro-gun) (July 18, 1933, T. YOSHINAGA). New to Honshû!

99) **Puccinia Glyceriæ** ITO in Jour. Coll. Tohoku Imp. Univ. III, p. 200 & pl. XI, fig. 2, 1909.

Hab. On *Glyceria lithuanica* LINDM. (*Karafuto-dojoyôtunagi*). *Hokkaidô* :- Prov. Ishikari; Mt. Kuro-dake (Aug. 4, 1925, HIRATSUKA, f.). *Glyceria lithuanica* is a new host plant for this species!

100) **Puccinia oahuensis** ELLIS et EVERHART in Bull. Torr. Bot. Club, XX, p. 425, 1895.

Hab. On *Syntherisma sanguinalis* DULAC. var. *ciliaris* HONDA (*Mehishiba*). *Honshû* :- Prov. Kii : Wakayama-shi (Oct. 30 & Nov. 7, 1938, E. TOBINAGA). New to Honshû!

101) **Puccinia Kyllingiae-brevifoliæ** MIURA in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 128, 1938.

Hab. On *Kyllingia brevifolia* ROTTB. (*Hime-kugu*). *Honshû* :-Prov. Kii : Nishiwasa-mura (Nov. 2, 1938, E. TOBINAGA). New to Honshû !

102) ***Puccinia mandshurica*** MIURA, Flora of Manchuria & East Mongolia, III, p. 308 & pl. IV, fig. G, 1928.

Hab. On *Carex siderosticta* HANCE. (*Taganesô*). *Honshû* :-Prov. Kii : Okazaki-mura (Nov. 14, 1938, E. TOBINAGA). New to Honshû !

103) ***Puccinia Ainsliaeae*** SYDOW, Monogr. Ured. I, p. 6, 1902.

Syn. *Puccinia niitakensis* HIRATSUKA, f. et HASHIOKA in Bot. Mag. Tokyo, XLVIII, p. 233 & text-fig. 1, b, 1934. (*nov. synom.*)

Hab. On *Ainsliaea reflexa* MERR. (*Taiwan-haguma*). *Formosa* :-Prov. Taihoku : Kirettoi (Mt. Nanko) (July 28, 1934, Y. HASHIOKA). Prov. Shinchiku : Mt. Izawa (Taiha Mts.) (July 14, 1935, Y. HASHIOKA).

On *Ainsliaea reflexa* var. *nimborum* HANDEL-MAZZETTI (*Ainsliaea morrisonicola* HAYATA) (*Okada-haguma*). *Formosa* :-Prov. Shinchiku : Mt. Taiha (July 17, 1935, Y. HASHIOKA). Prov. Tainan : Mt. Niitaka (July 9, 1933, Y. HASHIOKA, type of *Puccinia niitakensis* HIRATSUKA, f. et HASHIOKA !).

104) ***Uromyces Ervi*** (WALLR.) WESTENDORP in Bull. Acad. Roy. Sci. de Belg. XXI, pt. 2, p. 246, 1854.

Syn. *Uromyces Fabae* (not DE BARY) (LIEU & WANG in Contrib. Inst. Bot., National Acad. Peiping, III, p. 27 & pl. VI, fig. 3, b, 1935; SYDOW in Ann. Myc. XXVII, p. 418, 1929).

Hab. On *Vicia Kulingiana* BAILEY. *China* :-Nanking :-Tai-ping-man (May 10, 1926, T.F. YU).

On *Vicia sativa* L. *China* :-Nanking : Tai-ping-man (May 16, 1928, H. K. CHEN). New to China !

105) ***Uromyces linearis*** BERKELEY et BROOME in Jour. Linn. Soc. XIV, p. 92, 1875.

Hab. On *Panicum repens* L. (*Hai-kibi*). *S. China* :-Hainan Isl. : Sankô (March 27, 1939, Y. HASHIOKA). New to China !

106) ***Phragmidium brevipedicellatum*** HIRATSUKA, f. in Transact. Sap-

poro Nat. Hist. Soc. XIII, p. 135, 1934.

Hab. On *Potentilla Kleiniana* WIGHT. et ARN. (*Ohebiichigo*). Korea :- Prov. Kôkai : Chôryôri (July 21, 1938, I. KIYOHARA). New to Korea !

107) **Gerwasia chinensis** (DIET.) HIRATSUKA, f. nov. comb.

Syn. *Uredo constellata* BERKELEY et CURTIS in Proc. Amer. Acad. Arts & Sci. IV, p. 126, 1858; SACCARDO, Syll. Fung. VII, p. 845; SYDOW, Monogr. Ured. IV, p. 589.

Uredo chinensis DIETEL in Hedwigia, XXXVII, p. 213, 1898; SACCARDO, Syll. Fung. XIV, p. 391.

Uromyces chinensis DIETEL in Ann. Myc. X, p. 206, 1912.

Spirechina chinensis DIETEL in ENGLER-PRANTL, Natürl. Pflanzenfam. II. Aufl. VI, p. 60, 1928.

Mainsia chinensis JACKSON in Mycologia, XXIII, p. 107, 1931.

Gerwasia fasciculata ARTHUR et CUMMINS in Philippine Jour. Sci. LXI, p. 466 & pl. II, fig. 1, 1936.

Hab. On *Rubus Buergeri* MIQ. (*Fuyu-ichigo*). Honshû :-Prov. Tango : Yoshidzu-mura (Oct. 17, 1931, HIRATSUKA, f.). Prov. Tajima : Nishihama-mura (Aug. 16, 1938, HIRATSUKA, f.). Prov. Inaba : Tottori (April 29, May 19 & Oct. 1, 1929; March 30 & April 6, 1930; May 1, 1931, HIRATSUKA, f.). Prov. Aki : Hiroshima (April 25, 1930, S. KUSANO). Shikoku :-Prov. Tosa : Shinjo-mura (June, 1934, M. KAMIMURA); Ioki-mura (T. YOSHINAGA); Susaki-machi (July 19, 1935, M. KAMIMURA). Prov. Awa : Taryûji-san (Nov. 30, 1935, T. YOSHINAGA). Prov. Iyo : Irazu-yama (Oct. 17, 1930, T. YOSHINAGA); Tachimajiri-mura (April 28, 1932, K. KIMURA). Kiushû :-Prov. Chikuzen : Yoshikawamura (Dec. 28, 1931 & Jan. 3, 1937, Y. MAKI); Mt. Fukuehi (Oct. 25, 1936, E. TOBINAGA); Yamaguchi-mura (Aug. 29, 1931, O. ISHIUCHI); Mt. Shakû-dake (Kiku-gun) (June 20, 1937, T. KATSUKI). Prov. Chikugo : Miike-machi (June 12, 1935, E. TOBINAGA). Prov. Hizen : Kosaza-mura (March 26, 1934, T. KATSUKI). Prov. Satsuma : Imuda-ike (Oct. 17, 1933, K. IDE); Naka-gôriu-mura near Kagoshima (June 6, 1931, K. IDE).

On *Rubus laciniato-stipulatus* HAYATA (not *Rubus formosensis* KUNTZE) (*Keori-ichigo*). Formosa :-Prov. Taihoku : Kussaku (April 30, 1933, Y.

HASHIOKA). Prov. Taichû: Gojyô (Dec. 27 & 30, 1932, Y. HASHIOKA); Shinsha (April 12, 1930, F. ÔNUMA).

108) **Nyssopsora Koelreuteriæ** (SYDOW) TANZSCH in Jour. Soc. Bot. Russie, VIII, p. 132, 1925.

Syn. *Triphragmium Koelreuteriæ* SYDOW in Ann. Myc. XI, p. 55 & text-fig. 1913; SACCARDO, Syll. Fung. XXIII, p. 828.

Oplophora Koelreuteriæ SYDOW in Ann. Myc. XIX, p. 170, 1921.

Hab. On *Koelreuteria paniculata* LAM. (*Mokugenji*) (cult.). Honshû :-Prov. Rikuchû: Morioka (Oct. 20, 1922, G. YAMADA, type!)

109) **Nyssopsora formosana** (SAWADA) LÜTJEH. in Blumea, Suppl. I, 29, VI, p. 160, 1937.

Syn. *Triphragmium formosanum* SAWADA in Dept. Agric. Govern. Res. Inst. Formosa, Rept. LI, p. 52 & pl. II, figs. 38~40, 1931; HIRATSUKA, f. in Jour. Jap. Bot. XIII, p. 250 & text-fig. 3, 1937.

Hab. On *Koelreuteria formosana* HAYATA (*Taiwan-mokugenji*). Formosa :-Prov. Taihoku: Taihoku (Oct. 25, 1932; Jan. 8 & July 26, 1933, Y. HASHIOKA). Prov. Takao: Kuraru (Jan. 5, 1934, Y. HASHIOKA).

110) **Nyssopsora Cedrelæ** (HORI) TRANZSCHER in Jour. Soc. Bot. Russie, VIII, p. 132, 1925.

Syn. *Triphragmium Cedrelæ* HORI in YATABE, Icon. Fl. Jap. I, no. 2, p. 150 & pl. XXXVIII, fig. B. 1~4, 1892; SACCARDO, Syll. Fung. XI, p. 209; SYDOW, Monogr. Ured. III, p. 180 & pl. VII, fig. 78.

Oplophora Cedrelæ SYDOW in Ann. Myc. XIX, p. 170, 1921.

Hab. Gn *Cedrela sinensis* JUSS. (*Toona sinensis* ROEM.) (*Chanchin*) (cult.). Honshû :-Prov. Musashi: Tokyo (S. KUSANO). Prov. Tôtômi: Mori-machi (Sept., 1927, K. HARA). Prov. Tajima: Hamasaka (Nov. 5, 1929, HIRATSUKA, f.); Hatta-mura (Oct. 23, 1938, HIRATSUKA, f. & M. IRIE). Prov. Inaba: Tottori (May 29 & Nov. 3, 1929; Oct. 15, 1931; Sept. 18 & Oct. 30, 1932, HIRATSUKA, f.; June 26, 1929, M. YOSHIDA; Oct. 5, 1929, H. KOTANI): Ôkayama (July 25, 1937, HIRATSUKA, f.; Aug. 22, 1927, S. ENOMOTO). Shikoku :-Prov. Tosa: Nagahama-mura (June, 1903, T. YOSHINAGA); Aki-machi (Dec.,

1915, T. YOSHINAGA); Susaki-machi (June, 1934, K. CHIKAZAWA). Prov. Awa: Hayashi-machi (June 15, 1935, T. YOSHINAGA). *Kiushû* :-Prov. Chikugo : Ginsui-mura (Sept. 7 & Oct. 29, 1935, E. TOBINAGA). Prov. Higo : Arao-machi (June 4, 1935, E. TOBINAGA); Ariake-mura (July 18, 1935, E. TOBINAGA). Prov. Satsuma : Nakagôriu-mura near Kagoshima (June 22, 1932 & July 13, 1931, K. IDE); Nishi-Takeda-mura near Kagoshima (Sept. 7, 1933, K. IDE); Nikenchaya near Kagoshima (Nov. 26, 1930, K. IDE).

China :-Prov. Shantung : Muping (Aug. 19, 1933, T.N. & K.M. LIU).

111) **Pucciniostele mandschurica** DIETEL in Ann. Myc. II, p. 21, 1904.

Hab. On *Astilbe microphylla* KNOLL. (*Chidake-sashi*). *Kiushû* :-Prov. Bungo : Mt. Waitazan (May 29, 1935, E. TOBINAGA). Prov. Chikuzen : Raizan (Sept. 26, 1936, Y. MAKI). New to *Kiushû* !

112) **Milesina Asplenii-incisi** (FAULL) HIRATSUKA, f. in Mem. Tottori Agric. Coll. IV, p. 144 & pl. IV, fig. 2, 1936.

Hab. On *Asplenium incisum* THUNB. (*Toranowo-shida*). *Shikoku* :-Prov. Sanuki : Yashima-machi (Sept. 25, 1938, S. HIRATA). New to *Shikoku* !

113) **Phakopsora Nishidana** ITO in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 117, 1938.

Hab. On *Ficus erecta* THUNB. (*Inu-biwa*). *Shikoku* :-Prov. Sanuki : Yashima-machi (Sept. 4, 1938, S. HIRATA); Hirai-machi (Sept. 17, 1938, S. HIRATA). New to *Shikoku* !

114) **Coleosporium Pæderiæ** DIETEL in Ann. Myc. VII, p. 355, 1909.

Hab. On *Pæderia chinensis* HANCE. (*Yaito-bana*). *Honshû* :-Prov. Inaba : Tottori (Oct. 22, 1938, K. KAWAHARA). Prov. Kii : Wakayama-shi (Nov. 28, 1938, E. TOBINAGA); Setokanayama-mura (Dec. 24, 1938, HIRATSUKA, f.). New to *Honshû* !

115) **Aecidium formosanum** SYDOW in Ann. Myc. XI, p. 56, 1913.

Hab. On *Emilia sonchifolia* DC. (*Usubeni-nigana*). *S. China* :-Hainan Isl. : Retsurô (Feb. 27, 1939, Y. HASHIOKA). New to *China* !